



5-16-05

Ifw

PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

7

Application Number

10/682,659

Filing Date

October 8, 2003

First Named Inventor

Kit S. Lam

Art Unit

1639

Examiner Name

Teresa D. Wessendorf

Attorney Docket Number

8141/11803

ENCLOSURES (Check all that apply)☐

Fee Transmittal Form

☐

Fee Attached

☐

Amendment/Reply

☐

After Final

☐

Affidavits/declaration(s)

☐

Extension of Time Request

☐

Express Abandonment Request

☒

Information Disclosure Statement

☐

Certified Copy of Priority Document(s)

☐Reply to Missing Parts/
Incomplete Application☐Reply to Missing Parts
under 37 CFR 1.52 or 1.53☐

Drawing(s)

☐

Licensing-related Papers

☐

Petition

☐Petition to Convert to a
Provisional Application☐

Power of Attorney, Revocation

☐

Change of Correspondence Address

☐

Terminal Disclaimer

☐

Request for Refund

☐

CD, Number of CD(s) _____

☐ Landscape Table on CD

Remarks

☐

After Allowance Communication to TC

☐Appeal Communication to Board
of Appeals and Interferences☐Appeal Communication to TC
(Appeal Notice, Brief, Reply Brief)☐

Proprietary Information

☐

Status Letter

☒Other Enclosure(s) (please identify
below):Form 1449
Return card**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name

Weintraub Genshlea Chediak Sproul

Signature

Printed name

Audrey A. Millemann

Date

May 12, 2005

Reg. No.

44,942

CERTIFICATE OF TRANSMISSION/MAILING Express Mail EL939552525US

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as express mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature

Typed or printed name

Audrey A. Millemann

Date

May 12, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Kit S. Lam and Derick H. Lau)

Serial No.: 10/682,659)

Filed: October 8, 2003)

For: Method for Screening)
Combinatorial Bead Library;)
Ligands for Cancer Cells)

Art Unit: 1639

Examiner: Teresa D. Wessendorf

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

May 12, 2005
Sacramento, California 95814

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to Rules 1.97 and 1.98, Applicants submit herewith a listing of patents, publications, or other information of which Applicants are aware, as set forth on the accompanying Form 1449, which Applicants believe may be material to the examination of this application and with respect to which there may be a duty to disclose.

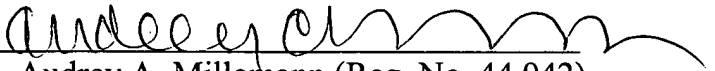
All except two of the patents and references cited in the Form 1449 were submitted in the parent application, serial no. 10/032,678, now U.S. patent no. 6,670,142 B2 issued on December 30, 2003, and considered by the Examiner at that time. The two newly-submitted references are listed on the enclosed Form 1449 under "Other Documents" as nos. 28 and 29. Pursuant to MPEP §609 (I)(A)(2) and 609 (III)(A)(2), copies of the references previously cited in the parent application are not enclosed. Copies of reference nos. 28 and 29 are enclosed.

The filing of this information disclosure statement and accompanying Form 1449 shall not be construed as a representation that a search has been made (37 C.F.R. 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement and accompanying Form 1449 shall not be construed as an admission against interest in any manner. (Notice of January 9, 1992, 1135 O.G. 13-25, at 25.)

Respectfully submitted,

Kit S. Lam and Derick H. Lau

By: 
Audrey A. Millemann (Reg. No. 44,942)
Attorney for Applicants
Weintraub Genshlea Chediak Sproul
Law Corporation
400 Capitol Mall, Eleventh Floor
Sacramento, California 95814
916/558-6033

Enclosures:

Form 1449 (4 pages)

2 references

Return card

I hereby certify, under 37 C.F.R. 1.10, that this document and those enclosed are being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" to the Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on May 12, 2005, Express Mail Label No. EL939552525US.


Audrey A. Millemann

Note: Each paper or fee referred to has the Express Mail label number placed thereon. (37 C.F.R. 1.10(b).)

FORM PTO 1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO.: 8141/11803	SERIAL NO. 10/682,659
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANTS: Lam and Lau	GROUP 1639
		FILING DATE: October 8, 2003	

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	PATENT NUMBER								DATE	NAME	CLASS	SUB CLASS	FILING DATE
	5	5	1	0	2	4	0	1996	Lam				1993
	5	8	8	8	4	9	7	1999	Jain				1996
	6	2	4	2	2	1	1	2001	Peterson				1999
	0	0	0	5	5	7	8	2001	Prusiner				2001
	5	6	3	5	5	9	8	1997	Lebl				1994
	5	6	5	1	9	4	3	1997	Lam				1994
	5	6	5	0	4	8	9	1997	Lam				1991
	5	8	4	0	4	8	5	1998	Lebl				1994
	5	8	5	8	6	7	0	1999	Lam				1996

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLAS S	
WO	9	8	2	7	2	3	1	1997	PCT			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

* Use publication date indicated on the patent or published application.
37 CFR 1.98(b)

** The place or publication refers to the name of the journal, magazine or other publication in which the article was published. Notice of January 9, 1992, 1135 O.G. 13 to 25, at 20.

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, AND PLACE OF PUBLICATION)

- Liu, Gang, Yemei Fan, James R. Carlson, Zhan-Gong Zhao, and Kit S. Lam. "Solution-Phase Synthesis of a 1,5-Dialkylamino-2,4-dinitrobenzene Library and the Identification of Novel Antibacterial Compounds from This Library." *J. Comb. Chem* 2, no. 5 (August 3, 2000): 467-474.

Information Disclosure Statement

(FORM PTO - 1449)

Page 1 of 4

Exp. Mail EL93955252US

FORM PTO 1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO.: 8141/11803 APPLICANTS: Lam and Lau FILING DATE: October 8, 2003	SERIAL NO. 10/682,659 GROUP 1639
--	--	---

2. Lam, Kit S. "Application of combinatorial library methods in cancer research and drug discovery." *Anti-Cancer Drug Design* 12 (1997): 145-167.
3. Cabilly, S., ed. *Methods in Molecular Biology*, vol. 87: *Combinatorial Peptide Library Protocols*, chaps. 1 and 2. Totowa, New Jersey: Humana Press, Inc.
4. Lebl, Michal, Viktor Krchňák, Nikolai F. Sepetov, Bruce Seligmann, Peter Strop, Stephen Felder, and Kit S. Lam. "One-Bead-One-Structure Combinatorial Libraries." *Biopolymers (Peptide Science)* 37 (1995): 177-198.
5. Liu, Gang, and Kit S. Lam. One-bead one-compound combinatorial library method. In *Combinatorial Chemistry - A Practical Approach*. Edited by Hicham Fenniri. Oxford University Press.
6. Lam, Kit S., Sydney E. Salmon, Evan M. Hersh, Victor J. Hruby, Wieslaw M. Kazmierski, and Richard J. Knapp. "A new type of synthetic peptide library for identifying ligand-binding activity." *Nature* 354 (November 7, 1991): 82-84.
7. Lam, Kit. S. and Michal Lebl. "Selectide Technology: Bead-Binding Screening." *METHODS: A Companion to Methods in Enzymology* 6 (1994): 372-380.
8. Lam, Kit S., Zhan-Gong Zhao, Shelly Wade, Viktor Krchňák, and Michal Lebl. "Identification of Small Peptides That Interact Specifically With a Small Organic Dye." *Drug Development Research* 33 (1994): 157-160.
9. Wu, Jinzi, Qingyan N. Ma, and Kit S. Lam. "Identifying Substrate Motifs of Protein Kinases by a Random Library Approach." *Biochemistry* 33 (1994): 14825-14833.
10. Smith, M. H., A. A. Nuara, J. G. Egen, D. B. Sirjani, K. S. Lam, and W. J. Grimes. "Baculoviral expressed HLA class I heavy chains used to screen a synthetic peptide library for Allele-Specific peptide binding motifs." *Molecular Immunology* 35 (1998): 1033-1043.
11. Pennington, Michael E., Kit S. Lam, and Anne E. Cress. "The use of a combinatorial library method to isolate human tumor cell adhesion peptides." *Molecular Diversity* 2 (1996): 19-28.
12. Lam, Kit S., Michal Lebl, and Viktor Krchňák. "The 'One-Bead-One-Compound' Combinatorial Library Method." *Chem Rev* 97 (1997): 411-448.

FORM PTO 1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO.: 8141/11803 APPLICANTS: Lam and Lau FILING DATE: October 8, 2003	SERIAL NO. 10/682,659 GROUP 1639
--	--	---

13. Lam, Kit S. Synthetic peptide and nonpeptide libraries. *Encyclopedia of Molecular Biology and Molecular Medicine* 5 (1996): 516-524
14. Lam, Kit S., Thomas Sroka, Man-Ling Chen, Yu Zhao, Qiang Lou, Jinzi Wu, Zhan-Gong Zhao. Application of "one-Bead One-Compound" Combinatorial Library Methods in Signal Transduction Research. *Life Sciences* 62, nos. 17/18 (1998): 1577-1583.
15. Lam, Kit S., Douglas Lake, Sydney E. Salmon, John Smith, Man-Ling Chen, Shelly Wade, Farid Abdul-Latif, Richard J. Knapp, Zuzana Leblova, Ronald D. Ferguson, Viktor Krchnak, Nikolai F. Sepetov, Michal Lebl. A One-Bead One-Peptide Combinatorial Library Method for B-Cell Epitope Mapping. *METHODS: A Companion to Methods in Enzymology* 9 (1996): 482-493.
16. Park, Steven, Renil Manat, Brian Vikstrom, Nail Amro, and Kit S. Lam. "Identification of Peptide Ligands for $\alpha 4 \beta 1$ Integrin Receptor as Potential Targeting Agents for Non-Hodgkin's Lymphoma." *Peptides: The Wave of the Future*. 2nd International Peptide Symposium in conjunction with the 17th American Peptide Symposium. June 9-14, 2001, San Diego, CA.
17. Clark, Peter. 1998. "Micropatterning cell adhesiveness" in *Immobilized Biomolecules in Analysis - A Practical Approach*. Edited by Tony Cass and Frances S. Ligler, Oxford University Press.
18. DeRoock, Ian B., Michael E. Pennington, Thomas C. Sroka, Kit S. Lam, G. Tim Bowden, Elisabeth L. Bair, and Anne E. Cress. "Synthetic Peptides Inhibit Adhesion of Human Tumor Cells to Extracellular Matrix Proteins." *Cancer Research* 61 (April 15, 2001) 3308-3313.
19. Lau, Derick H., Linlang Guo, Ruiwu Liu, Aimin Song, Chunkui Shao, and Kit S. Lam. "Identifying peptide ligands for cell surface receptors using cell-growth-on-bead assay and one-bead one-compound combinatorial library." *Biotechnology Letters* 24 (2002) 497-500.
20. Mařík, Jan, Derick H. Lau, Aimin Song, Xiaobing Wang, Ruiwu Liu, Kit S. Lam. "Magnetization of Large Polystyrene Peptide Beads for Capturing and Expanding Cancer Cells." *Elsevier Science* (7 February 2003).
21. Aina, Olulanu H., Thomas C. Sroka, Man-Ling Chen, and Kit S. Lam. "Therapeutic Cancer Targeting Peptides." Published online 7 October 2002 in *Wiley InterScience* (www.interscience.wiley.com).
22. Liu, Ruiwu, Jan Mařík, and Kit S. Lam. "A Novel Peptide-Based Encoding System for 'One-Bead One-Compound' Peptidomimetic and Small Molecule Combinatorial Libraries." *J. Am. Chem Soc.* 124 (2002) 7678-7680.

FORM PTO 1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO.: 8141/11803 APPLICANTS: Lam and Lau FILING DATE: October 8, 2003	SERIAL NO. 10/682,659 GROUP 1639 -
--	--	--

23. Cardareli, Pina M., et al. "The collagen receptor alpha-2-beta-1, from MG-63 and HT1080 cells, interacts with a cyclic RGD peptide." *Journal of Biological Chemistry* 267 (1992) 32: 23159-23164.
24. Durcova, G., et al. "Immunomagnetic Isolation of Mouse Embryonic Stem Cells from Heterogeneous Cell Population." *Theriogenology* 47 (1997) 1: 242.
25. Krueger, W., et al. "Purging in Der Knochenmark- und Stammzell Transplantation1 Purging in Bone Marrow and Stem Cell Transplantation." *Laboratoriumsmedizin, Kirchheim, De* 20 (1996) 4: 210-220.
26. Yang, Yi, et al. "LPAM-1 (integrin alpha4beta7)-ligand binding: Overlapping binding sites recognizing VCAM-1, MADCAM-1 and CS-1 are blocked by fibrinogen, a fibronectin-like polymer and RGD-like cyclic peptides." *European Journal of Immunology* 28 (March 1998) 3: 995-1004.
27. European Patent Application, pub. no. EP 0 332 912 A2 (Jolla Cancer Res Found) 20 September 1989 (published September 20, 1989), "Inhibition of cell migration with synthetic peptides."
28. Aina, Olulanu H., et al. "Identification of Novel Targeting Peptides for Human Ovarian Cancer Cells Using OBOC Combinatorial Libraries." Draft publication submitted to *Molecular Cancer Therapeutics*, in about March 2005.
29. Song, Aimin, Jinhua Zhang, Carlito B. Lebrilla, and Kit S. Lam. "A Novel and Rapid Encoding Method Based on Mass Spectrometry for 'One-Bead-One-Compound' Small Molecule Combinatorial Libraries." *J. Am. Chem. Soc.* 125 (2003): 6180-6188.

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

* Use publication date indicated on the patent or published application.
37 CFR 1.98(b)

** The place or publication refers to the name of the journal, magazine or other publication in which the article was published. Notice of January 9, 1992, 1135 O.G. 13 to 25, at 20.

Information Disclosure Statement

(FORM PTO - 1449)

Page 4 of 4